

DEPARTMENT of ENVIRONMENTAL SERVICES
Water Division - Watershed Management Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: MOOSE POND	Lake Area (ha): 4.05
Town: PITTSBURG	Maximum depth (m): 3.3
County: Coos	Mean depth (m): 1.3
River Basin: Connecticut	Volume (m ³): 53000
Latitude: 45°05'54" N	Relative depth: 1.5
Longitude: 71°22'56" W	Shore configuration: 1.08
Elevation (ft): 1377	Areal water load (m/yr): 27.08
Shore length (m): 770	Flushing rate (yr ⁻¹): 20.70
Watershed area (ha): 173.5	P retention coeff.: 0.44
% watershed ponded: 1.2	Lake type: natural w/dam

<u>BIOLOGICAL:</u>	21 January 1999	19 August 1998
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DOM. PHYTOPLANKTON (% TOTAL)	#1	NO WINTER PLANKTON	DINOBRYON 65%
	#2	ANALYZED	CERATIUM 15%
	#3		
PHYTOPLANKTON ABUNDANCE (units/mL)			
CHLOROPHYLL-A (µg/L)			13.53
DOM. ZOOPLANKTON (% TOTAL)	#1		NAUPLIUS LARVA 25%
	#2		KELLICOTTIA 22%
	#3		KERATELLA 13%
ROTIFERS/LITER			326
MICROCRUSTACEA/LITER			200
ZOOPLANKTON ABUNDANCE (#/L)			568
VASCULAR PLANT ABUNDANCE			Scat/Common
SECCHI DISK TRANSPARENCY (m)			2.5
BOTTOM DISSOLVED OXYGEN (mg/L)		4.6	9.2
BACTERIA (E. coli, #/100 ml)	#1		
	#2		
	#3		

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None
Hypolimnion volume (m³) : None
Anoxic volume (m³) : None

CHEMICAL:

Lake: MOOSE POND

Town: PITTSBURG

	21 January 1999		19 August 1998		
DEPTH (m)	1.5		1.0		2.0
pH (units)	6.4		7.0		7.0
A.N.C. (Alkalinity)	15.4		31.6		31.8
NITRATE NITROGEN	0.74		< 0.05		< 0.05
TOTAL KJELDAHL NITROGEN	0.40		0.40		0.40
TOTAL PHOSPHORUS	0.003		0.015		0.017
CONDUCTIVITY (μ mhos/cm)	51.4		42.6		42.5
APPARENT COLOR (cpu)	11		23		24
MAGNESIUM			1.68		
CALCIUM			5.1		
SODIUM			1.0		
POTASSIUM			< 0.40		
CHLORIDE	< 2		< 2		< 2
SULFATE	4		3		2
TN : TP	380		27		24
CALCITE SATURATION INDEX			2.1		

All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 1998

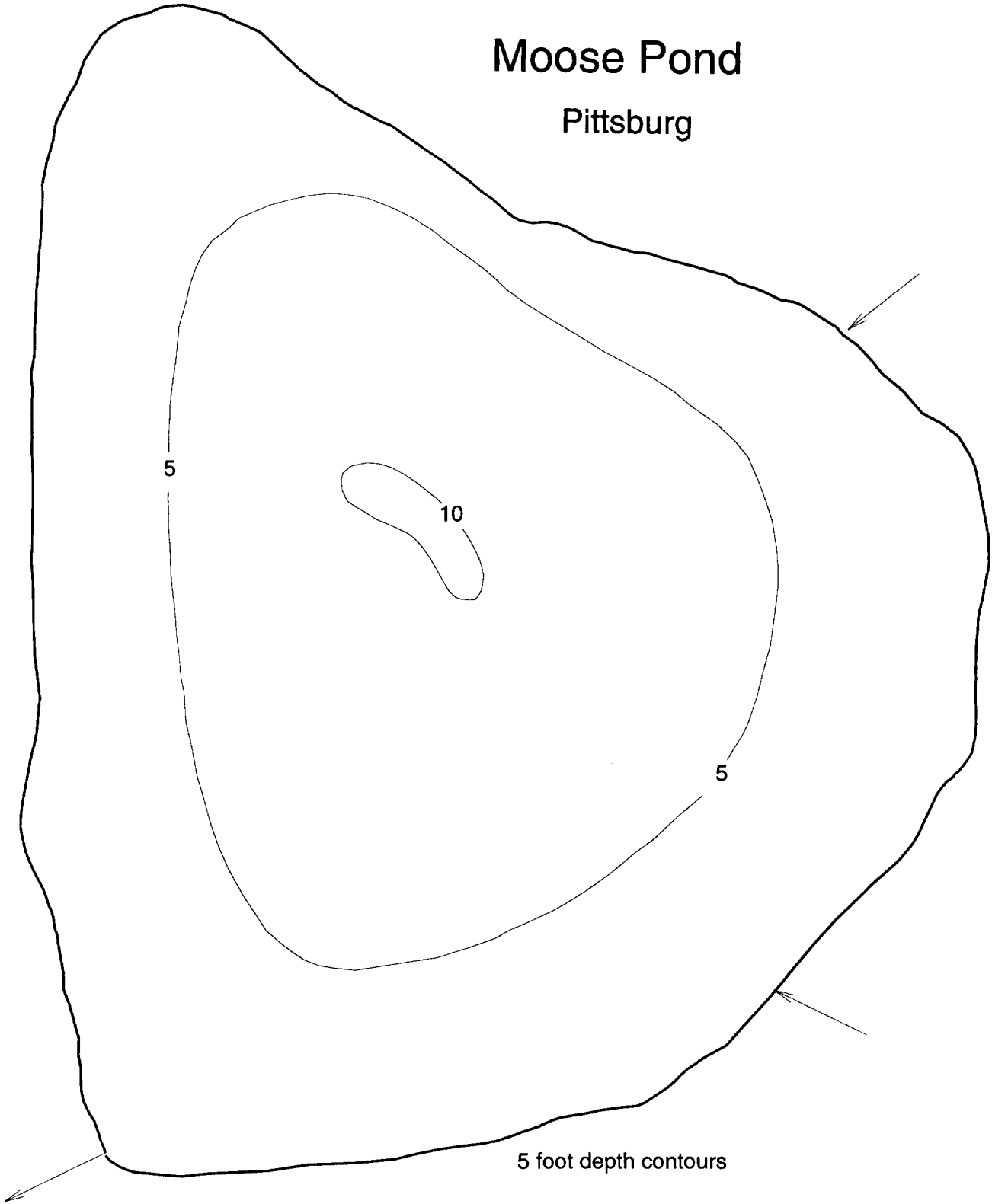
D.O. S.D. PLANT CHL TOTAL CLASS

**	3	2	3	8	Meso.
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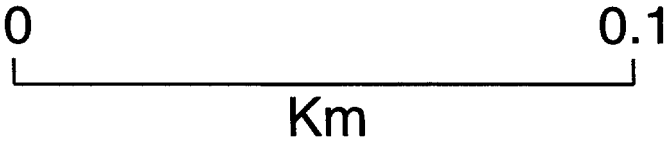
COMMENTS:

1. No motors are allowed on the pond.
2. pH and particularly ANC were high – this is good – for a NH pond, probably due to the geology of the area.
3. One camp was present along the shoreline.

Moose Pond
Pittsburg



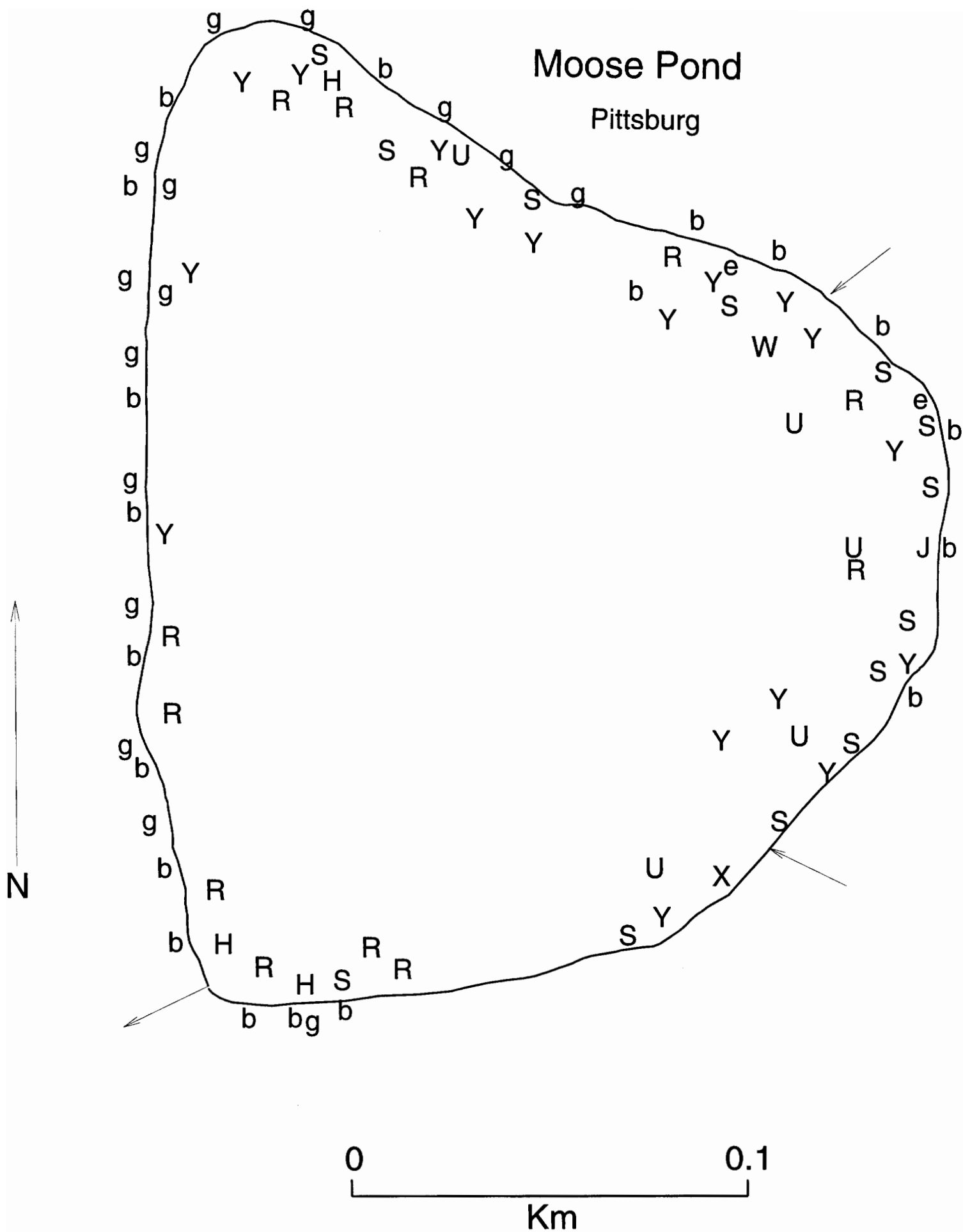
5 foot depth contours



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COMMENTS :

III-107



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